



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 104
Columbus, OH 43216-1049

12/10/01

CERTIFIED MAIL

RE: Final Chapter 3745-35 Permit To Operate

F003 (Building Crusher)

Portable Concrete & Demolition Debris Crushing
w/Fabric Filter, Screening, & Material Handling

U.S. DOE - Mound Plant (08-57-09-1196)

Patricia Brechlin

PO Box 66

Miamisburg, OH 45343-0066

Dear Patricia Brechlin:

The enclosed Permit(s) to Operate allow you to operate the described emissions unit(s) in the manner indicated in the Permit(s). Because each permit contains several terms and conditions, I urge you to read them carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed with the Environmental Review Appeals Commission within thirty (30) days after notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. It is also requested by the Director that a copy of the appeal be served upon the Environmental Enforcement Section of the Office of the Attorney General. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street
Room 300
Columbus, Ohio 43215

If you have any questions, please contact the RAPCA at (937) 225-4435.

Very truly yours,

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: RAPCA

12-12-01P04:19 RCVD
MIAMISBURG
LOG F-00342
CODE 5472.52



State of Ohio Environmental Protection Agency

Final Permit To Operate An Emissions Unit

Effective Date: 12/10/01

Expiration Date: 12/10/06

This document constitutes issuance to:

Facility ID: 08-57-09-1196
U.S. DOE - Mound Plant
P.O. Box 66
Miamisburg, OH 45343-0066

of a permit to operate for:

F003 (Building Crusher)
Portable Concrete & Demolition Debris Crushing w/Fabric Filter, Screening, & Material Handling

You will be contacted six months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency identified below. This permit and the authorization to operate the air contaminant source (emissions unit) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC Chapter 3745-35 and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

RAPCA
451 West Third Street
PO Box 972
Dayton, OH 45422
(937) 225-4435

This permit is granted subject to the conditions attached hereto.

OHIO ENVIRONMENTAL PROTECTION AGENCY

A handwritten signature in dark ink, appearing to read "Christopher Jones". The signature is written in a cursive, flowing style.

Christopher Jones
Director

Part I: General Terms and Conditions

1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

2. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

3. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

4. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

5. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State and federal air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether

cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

6. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions unit or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of this emissions unit(s) that is (are) served by such control system(s).

7. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permittee. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

8. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

9. Permit Renewal

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the following Ohio EPA District Office or local air agency which has jurisdiction in the area in which the facility is located:

RAPCA
451 West Third Street
PO Box 972
Dayton, OH 45422
(937) 225-4435

It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

Part II: Special Terms and Conditions

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Portable Concrete and Demolition Debris Crushing with Fabric Filter, Screening & Material Handling Operation Powered by a 1.53 mmBtu/hr Diesel Engine	OAC rule 3745-31-05 (A)(3) PTI 08-4134	Crusher: 0.86 lb/hr and 0.68 TPY Particulate; 5% opacity visible emission limitation as a 3-minute average Diesel Engine: 6.75 lbs/hr and 5.40 TPY Nitrogen Oxides; 1.45 lb/hr and 1.20 TPY Carbon Monoxide; 0.44 lb/hr and 0.36 TPY Sulfur Dioxide; 0.062 lb particulate/mmBtu of actual heat input and 0.08 TPY Particulate; 0.55 lb/hr and 0.44 TPY Organic Compounds; 5% opacity visible emission limitation as a 3-minute average The particulate emission limit based on the rule is less stringent than the limit than that required in OAC rule 3745-31-05 (A)(3). Crusher: The particulate emission limit based on the rule is less stringent than the limit than that required in OAC rule 3745-31-05 (A)(3). Diesel Engine: The particulate emission limit is equivalent to that required in OAC rule 3745-31-05 (A)(3). See Additional Terms and Conditions 2.c below
	OAC rule 3745-17-07 (A)	
	OAC rule 3745-17-07 (B) OAC rule 3745-17-08 (B)	
	OAC rule 3745-17-11 (B)(5)(b)	
	40 CFR Part 61, Subpart H	

2. Additional Terms and Conditions

- 2.a The hourly emission limitations were established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.
- 2.b Compliance with the emission limitations for the crushing, screening and material handling operation shall be achievable through the application of misting water.

2. Additional Terms and Conditions (continued)

- 2.c** Emissions of radionuclides to the ambient air from Department of Energy facilities shall not exceed those amounts that would cause any member of the public to receive in any year an effective dose equivalent of 10 mrem/yr.

B. Operational Restrictions

1. The permittee is required to apply water misting sufficient to minimize or eliminate fugitive emissions from emissions unit F003 while it is in operation.
2. The permittee shall burn only distillate fuel oil in this emissions unit.
3. The maximum annual operating hours for this emissions unit shall not exceed 1600 based upon a rolling, 12-month summation of the operating hours.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall conduct daily checks of the water misting application, while the emissions unit F003 is in operation and record the findings in a log.
2. The permittee shall maintain monthly records of the operating hours for each month.
3. The permittee shall perform daily checks, when the emissions unit is in operation for any visible emissions. The presence or absence of any visible emissions from the emissions unit shall be noted in an operations log.
4. For each day during which the permittee burns a fuel other than distillate fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

D. Reporting Requirements

1. The permittee shall submit semi-annual written reports which (a) identify all days during which any visible particulate emissions were observed and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit deviation (excursion) reports to the Director (the appropriate Ohio EPA District Office or local air agency) that identify each day when a fuel other than distillate fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. The permittee shall submit deviation (excursion) reports to the Director (the appropriate Ohio EPA District Office or local air agency) which identify all exceedances of the rolling, 12-month operating hours limitation. Each report shall be submitted within 30 days after the deviation occurs.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1. shall be determined in accordance with the following methods:

1.a For the Crusher

Emission Limitation-
0.86 lb/hr Particulate

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly production rate of 150 tons/hr by the total emission factor of 0.0057 lb particulate/ton of throughput for crushing, screening, and material handling, as specified in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19, Table 11.19.2-2, 1/95 and adjusted accordingly for total particulate.

E. Testing Requirements (continued)

- 1.b** Emission Limitation-
0.68 TPY Particulate

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly production rate of 150 tons by the hours of operation as determined in section C.2.; then multiplying by the total emission factor of 0.0057 lb particulate/ton of throughput for crushing, screening, and material handling, as specified in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19, Table 11.19.2-2, 1/95 and adjusted accordingly for total particulate, and then divided by 2000 lbs/ton.

- 1.c** Emission Limitation-
5% opacity visible emission limitation as a 3-minute average

Applicable Compliance Method-

Compliance with the visible emission limitation is presumed through the use of water misting. If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03 (B)(1) using the tests and procedures specified in USEPA Reference Method 9.

- 2.a** For the Diesel Engine

Emission Limitation-
6.75 lbs/hr Nitrogen Oxides

Applicable Compliance Method-

Compliance shall be based upon the emission factor for diesel fuel engines given in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 of 4.41 lb NOx/mmBtu multiplied by the maximum rated capacity of the diesel engine of 1.53 mmBtu/hr.

- 2.b** Emission Limitation-
5.40 TPY Nitrogen Oxides

Applicable Compliance Method-

Compliance shall be based upon the maximum hourly emission rate of 6.75 lbs/hr multiplied by the number of operating hours as determined in section C.2. and divided by 2000 lbs/ton.

- 2.c** Emission Limitation-
1.45 lb/hr Carbon Monoxide

Applicable Compliance Method-

Compliance shall be based upon the emission factor for diesel fuel engines given in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 of 0.95 lb CO/mmBtu multiplied by the maximum rated capacity of the diesel engine of 1.53 mmBtu/hr.

- 2.d** Emission Limitation-
1.20 TPY Carbon Monoxide

Applicable Compliance Method-

Compliance shall be based upon the maximum hourly emission rate of 1.45 lbs/hr multiplied by the number of operating hours as determined in section C.2. and divided by 2000 lbs/ton.

- 2.e** Emission Limitation-
0.44 lb/hr Sulfur Dioxide

Applicable Compliance Method-

Compliance shall be based upon the emission factor for diesel fuel engines given in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 of 0.29 lb SO2/mmBtu multiplied by the maximum rated capacity of the diesel engine of 1.53 mmBtu/hr.

E. Testing Requirements (continued)

- 2.f** Emission Limitation-
0.36 TPY Sulfur Dioxide

Applicable Compliance Method-

Compliance shall be based upon the maximum hourly emission rate of 0.44 lbs/hr multiplied by the number of operating hours as determined in section C.2. and divided by 2000 lbs/ton.

- 2.g** Emission Limitation-
0.062 lb Particulate/mmBtu of actual heat input

Applicable Compliance Method-

Compliance shall be based upon the emission factor for diesel fuel engines given in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 of 0.062 lb PM/mmBtu. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03 (B)(10).

- 2.h** Emission Limitation-
0.08 TPY Particulate

Applicable Compliance Method-

Compliance shall be based upon the emission factor for diesel fuel engines given in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 of 0.062 lb PM/mmBtu multiplied by the maximum rated capacity of the diesel engine of 1.53 mmBtu/hr, then multiplied by the number of operating hours as determined in section C.2. and divided by 2000 lbs/ton.

- 2.i** Emission Limitation-
0.55 lb/hr Organic Compounds

Applicable Compliance Method-

Compliance shall be based upon the emission factor for diesel fuel engines given in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 of 0.36 lb OC/mmBtu multiplied by the maximum rated capacity of the diesel engine of 1.53 mmBtu/hr.

- 2.j** Emission Limitation-
0.44 TPY Organic Compounds

Applicable Compliance Method-

Compliance shall be based upon the maximum hourly emission rate of 0.55 lbs/hr multiplied by the number of operating hours as determined in section C.2. and divided by 2000 lbs/ton.

- 2.k** Emission Limitation-
5% opacity visible emission limitation as a 3-minute average

Applicable Compliance Method-

Compliance with the visible emission limitation is presumed through the use of diesel fuel. If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03 (B)(1) using the tests and procedures specified in USEPA Reference Method 9.

F. Miscellaneous Requirements

1. Notice to Relocate a Portable or Mobile Source

Pursuant to Ohio Administrative Code (OAC) rule 3754-31-03 (A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

- i. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
- ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- iii. the applicant has provided proper notice of intent to relocate the portable emissions unit to the RAPCA and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
- iv. in RAPCA's and the appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

2. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

- i. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
- ii. the portable emissions unit is equipped with best available technology;
- iii. the portable emissions unit owner has identified the proposed site to Ohio EPA;
- iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
- v. a public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;
- vi. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
- vii. the portable emissions unit owner has provided Ohio EPA with fifteen days written notice of the relocation.

3. Any site approvals issued by the Ohio EPA, pursuant to F.2. above, shall be valid for no longer than three years and are subject to renewal.

In order for the RAPCA and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the RAPCA (451 W. Third St., Dayton, OH 45422) and the appropriate field office having jurisdiction over the new site. Upon receipt of the notice, the RAPCA and/or appropriate field office having jurisdiction over the the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in fines and civil penalties.